

## **DICE 2005 Mid Planning Conference Minutes**

### ***Day 1 – October 5, 2004***

#### **Opening Remarks – Col. Valez**

- DICE provides a real JTF environment and it is Joint Staff supported
- Your presence is pivotal
- JITC appreciates your participation
- This exercise is important
- Plan for the way ahead
- Questions/Concerns/Thoughts

#### **Administrative Remarks – Marty Mendoza**

- Security badges
- Telephones/messages/e-mail/fax/printers
- Smoking
- Lunch
- Register sheet – please verify/update your information
- Agenda

#### **Introductions – Around the room**

##### **DICE Director – Capt. Dunbar**

- Familiar and new faces
- DICE is growing
- Provides true end-to-end support
- No DMS during DICE, unless specifically asked for
  - Q: (Ray Blumel, Data Systems Analysts Inc.) why no DMS?
  - A: (Capt. Dunbar / Al Slave) JITC does not have the full capabilities to support end-to-end message services, however if DMS needs to be tested as an interoperability requirement, then it can be worked out.
- JITC tours available if requested
- This DICE 05 MPC is for the planners
- Make it a success

##### **Joint C4 Testing and Enforcement Branch J6I – Col. Brian Hamilton, Branch Chief**

- Working brief
- Interoperability is important
- General Shea Campaign Plan - going to a net-centric environment is difficult, DICE is important as a living testbed
- Message 112307AUG04DICE2005 sent for DICE
- The Joint Staff focus
- Joint warfighter environment
- Interoperability key to warfighter
  - Chairman and service chiefs support
  - Joint Staff J6 committed
- Focus on Certifications
- Bring Critical systems to DICE

## DICE 2005 Mid Planning Conference Minutes

- Q: (Chief Carpenter, 9<sup>th</sup> Comm) The MSQ-126 has critical interfaces that were not tested last year during DICE 04 and are looking to certify them during DICE 05, will those critical NAVFOR assets be available during the upcoming DICE in order for the MSQ-126 to receive a certification without non-tested requirements?
  - A: (Capt. Dunbar) SPAWAR is on board to provide NAVFOR assets during DCIE 05. Outside of the assets, CWO Carpenter, Capt. Dunbar, and Col. Hamilton can sit-down to discuss further.
  - Valuable work being done; Certifications, Assessments, Demonstrations, Training, and Tactics Techniques Procedures (TTP)
    - Do not loose sight of training and TTP
  - Lessons Learned are important
  - recertification is just as important as certification, 3 reasons for recert
    - every 3 years
    - system had major modifications to software/hardware
    - revoked certification due to an operational incident
  - Policies
    - Clinger Cohen Act – everything must be interoperable
    - DOD directives
    - Information Assurance
    - DOD acquisition
    - Joint capabilities, Joint instructions
  - J6 Division Topology
    - 4 branches
  - Four Basic Steps to Interoperability
    - Identify and verify interoperability requirements
    - Develop certification evaluation approach
    - Collect and analyze interoperability data
    - Determine interoperability status
  - Discussion of Interoperability Test Panel
  - Conclusion
    - JS J6I committed to DICE
    - DICE focus on Certifications
    - Certifications require JS certified requirements
    - ISP/ITP
    - people are here to help/assist
    - DICE provides training, lessons, learned, TTPs
    - Great Team at hand for warfighter communications
- Q: (name here) How do you get the message of interoperability within the DOD
- A: (Col. Hamilton) Through JFCOM, COCOM conferences, and JITC

### **Break**

**Remark – Marty Mendoza**

## **DICE 2005 Mid Planning Conference Minutes**

- By the end of this conference we should know how we are going to do DICE, schedules, type tests (certification/assessments), test plans for systems equipment. The FPC will be primarily for double-checking the plan of action during DICE.

### **SATCOM – Ralph Vega, JITC Test Bed**

- 10 weeks of testing, most likely not that many phases
- For the SATCOM planning group on Thursday please have the following information ready:
  - Participant dates
  - Service requirements, i.e., teleport, X-, Ku-bands (need intel sat # for Ku-band)
  - Latitude and Longitude
  - System information
  - P.O.C.
- Q: (CWO Carpenter) do you need the PDC #
- A: (Ralph) nope
- For multiplexer configuration, need type (Promina/FCC-100), card population, port, gateway/non-gateway information
- most likely come into JITC Domain 13
- suspense for Mux info NLT FPC
- What DISN services do you require? Voice, NIPRNet, SIPRNet, DVS
- SIPRNet accreditation package information due NLT FPC
- Q: (CWO Carpenter) open or closed NIPRNet/SIPRNet networks?
- A: (Larry Stewart) Closed unless drawing services from DSN
- Known Players
  - 9<sup>th</sup> Comm
  - Fort Monmouth
  - JCSE
  - Langley AFB
  - 11<sup>th</sup> SIG BDE
- most likely will only use the EASTPAC Satellite
- SATCOM planning, diagrams important in order to complete the switching and data network diagrams

### **LUNCH**

### **MSQ-126 – CWO Carpenter**

- Not a recognized system, Mr. Gordon Mattis working on it
- Background-needs and procurement
- Mission – mobile ready to deploy, in country 96hrs
- Note – Lessons learned, SATCOM data conversion for newer TSSPs (flip on receive aggregate), legacy no need to flip data. common in SATCOM world
- Capabilities
  - Multiplexer
  - COMSEC
  - Radios
  - SATCOM
  - SIPRNet

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- NIPRNet
- Messaging
- Switching, tactical SMU and COTS Lucent Prologix
- DRSN
- VTC
- JWICS
- CCCS
- TBMCS
- Coalition
- Bringing entire MSQ-126 system (deployed configuration) to JITC, 2 HMMWVs, 2 trailers, 2 pallets
- Note – billeting OK

### **Remark – Marty Mendoza**

- these briefs are up front in order to provide all participants of the conference to see what will be available during DICE 05

### **NITES IV– Ed Murrill, SPAWAR**

- Navy Integrated Tactical Environmental System (NITES)
- end-user only
- Program contact – Martha Yacoub 858-537-8635
- 2 man system
- end-to-end capability
- reason for DICE participation, need to be certified, interim certification has expired
- NITES IV Milestones
- Authority to operate Nov 2004
- Software Build January 2005
- Hardware Obsolescence Study April 2005
- Plan during DICE 05 – single node, IP infrastructure NIPRNet, C2PCis on SIPRNet
- no current requirements
- newly acquired sponsor trying to go through the Joint Staff process for certified requirements

### **Software Electronic Command (SEC), CECOM, Fort Monmouth, NJ – Ray Helsey**

- AN/TTC-42 is available, thanks to discussions during DICE 05 IPC
- FES will also be available
- The STEP terminals at Fort Monmouth are unsure of participation, will let us know
- the AN/TSC-85 will be available, maybe the 93 terminal too
- CBCS Software freeze scheduled for November 2004
- need contact information of all DICE participants in order to send upgraded software to use during DICE 05
- (Marty) CBCS is the software for TRI-TAC and MSE switches
- (Marty) SEC tests CBCS software every year during DICE for certification

### **Joint Network Management System (JNMS) – Don Murray**

- Software 1.1 to operator in March, version 1.2 for Beta testing, possible CENTCOM,
- MCEB mandated system, PMTRCS manager, Army, Executive agent

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- COCOMS, Deployed JTF, and services will use JNMS
- JNMS Subsystems
  - Security
  - Infrastructure
  - Network Planning
  - Reporting
  - Network Management
- Development Test
  - planned for last 2 weeks of DICE
  - need SATCOM, Voice, and Data diagrams
  - access to SIPRNet
  - co-location with JITC, near JCCC preferably
- Interfaces: ITMS, TMS, DCTS, JIICS-d
- Full Certification Goal
- need side-bar JCSE, NETWARS, netViv, and JITC for further discussion

### **Break**

#### **Remark – Marty Mendoza**

- All briefings will be available on JITC – DICE 05 website

#### **OAN – Marty Mendoza**

- The 1994 OAN is outdated
- OAN project uses netViz for certification status – graphic representation
- Can tell what system/equipment is certified or assessed or neither
- System/equipment information down to card population
- Test string end-to-end

#### **TDC-Hub – Msgt., Goldschmidt, 1<sup>st</sup> Comm Squadron**

- SATCOM hub/spoke tri-band terminal
- 2.4-meter antenna
- 9 transit cases
- Test first part of DICE, leave terminal in place for the duration of the exercise
- TDC-Hub will send technical information to Ralph Vega, to include DISA and Intel Cert

#### **WIN-T – Walt Franey**

- an intelligent WAN
- DICE participation
- Tactical Gateway Element (TGE): Teleport, DSN, SIPRNet, NIPRNet, JWICS, and if possible IPv6 too
- Final Architecture of the TGE not final yet due to merged contractor effort
- The switching solution *maybe* PBX with VoIP solution, Cisco call manager, Vantage gatekeeper

#### **GROOVE – Marty Mendoza**

- JITC certified

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- Upgraded to 3.0
- Everyone with system/equipment under test will be in the Groove network
- Used for message board, file send/receive and availability/instant message, lessons learned and event log.

### **IP End-toEnd Assessment CENTCOM – Dan Granstrom**

- Certify/assess the SAT IP Network – Linkway and Linkstar
- Required to support the extension of DISN services
- Test just ended last week, preliminary data

### **Action Items – Marty Mendoza**

- MSQ-126 requested NAVFOR participation
- Satellite information for Satellite planning meeting Thursday
- NITES IV – meet with Col. Hamilton to discuss certified requirements
- SEC – provide satellite information when available
- JNMS – side-bar discussion with JCSE, NETWARS, netViv, and JITC
- JITC – post briefings to website
- TDC-Hub – send technical data to Ralph Vega
- WIN-T – final architecture information to JITC when complete

## **END OF DAY ONE**

### ***Day 2 – October 6, 2004***

#### **Good Morning Remarks – Marty Mendoza**

- Tours will be provided, possible after lunch today
- If a sidebar is needed, let us know so we can accommodate you

#### **MCTSSA Brief – Bill Riddle**

- ULCS to be recertified, no new software, just recertify for 3-year mark
- Introduce GSgt Roy and GSgt Gentry

#### **DTC Brief – GSgt Roy**

- AN/TSQ-227
- No changes to platform, only software upgrades
- Needs full recertification
- IGX upgrade to 6.0
- Q: (Capt Dunbar) what was the previous version?
- A: 5.1.0
- The CDS will be upgraded during DICE to tested version
- Q: (Dan Granstrom) What version is the Promina currently and why not upgrade to 3.1.2
- A: Promina upgraded to 2.7.0.4, also upgraded to PVS 12
- Q: (GSgt Roy) What version of Promina is certified?
- A: (MSG Doyal) The Promina has never been certified
- Q: (GSgt Roy) To what extent do we need to recertify because it was only software upgrades?
- A: (Capt Dunbar) We will have to look at it

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- The DTC is in a open rack at MCTSSA and will be tested there.

### **TDN Gateway Brief – GSgt Roy**

- AN/TSQ-222
- TAG server 2000 series replaces the HP Kayak
- Took out Cisco works
- O/S upgrade to Windows Server 2003
- Q: (GSgt Roy) Will we use Active Direct during DICE 05?
- A: (Larry Stewart) no need

### **JECCS Brief – GSgt Gentry**

- Block I was certified last year
- Block I deployed to AOR and soon to other units
- New equipment:
- CVFOMS
- IGX out, HDX in
- Promina 400 to a 800
- Polycom VTC Suite to a newer Polycom Suite
- Add Shout IP
- Add DSLAMs, T1 and E1 flex modules
- COWAN added
- Q: (Dan Granstrom) Will Cowan be separate?
- A: GSgt Gentry) yes
- Q: (CWO Carpenter) This all fits in the van?
- A: (GSgt Gentry) yes, however current weight issue
- Q: (CWO Carpenter) Is SHF apart of the JECCS?
- A: (GSgt Gentry) no, SHF is separate, will most likely get SATCOM support from a LMST
- The HDX is scheduled for full certification in February; the JECCS will receive a separate certification test.
- Capabilities of JECCS Block I
  - Tech control
  - Circuit switching
  - Multiplexers and modems
  - Communications security
  - S/NS data networks
  - Integrated IA
  - Copnfig Network Assurance
  - VTC
  - INMARSAT
- Q: (Ray Steckman) What is the airlift requirement?
- A: (GSgt Gentry) One C-130
- Q: (CWO Carpenter) Are you putting this on a HMMWV or 7-ton? What about Trailer
- A: (GSgt Gentry) on HMMWV, trying to use the DAS trailer, however it just failed the road-ability test. Still looking into it.

### **Break**

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### TDC-ICAP and TDC-Hub Brief – Msgt Goldschmidt

- TDC-ICAP
  - Large voice module
  - Secure voice module v.3
  - STE-R module
  - Crypto Interface Module
  - CV8448 and KIV-19s
  - Promina 400/Promina 800
- TDC-HUB
  - Quad-band
  - DISA cert scheduled November 04
  - 6 TSSPs
  - 2.4-meter dish
  - 9 transit cases
- High Level Architecture for DICE05
- The TDC-ICAP and TDC-Hub will be at Langley
- The TDC-ICAP will use the TDC-Hub for SATCOM, if the TDC-Hub is not ready, then use the LMST
- Required interfaces
  - STEP
  - USMC
  - Army – secure TRI-TAC
  - Army –
  - Army –
  - Army –
- Q: (Capt. Dunbar) No Navy?)
- A: (Mike on telephone) {after some serious discussion) For this test, NAVFOR is not a requirement due to equipment limitations at Langley AFB, but yes, NAVFOR is a requirement for the TDC-ICAP
- STEP
  - IGX to DMS1 00
- USMC
  - TDC-ICAP to DTC
  - DSVT FXS/FXO to TTC-42
- Army – secure TRI-TAC
  - DSVT FXS/FXO to TTC-39D
  - MCE to DSVT via SVM and LTU to TTC-39D
  - Q: (Marty Mendoza) What is in the MCE?
  - A: (Mike on telephone) A DNV module, not an actual phone
  - Q: (Dan Granstrom) What version of Promina?
  - A: (Mike on telephone) 2.7.5
  - Q: (Dan Granstrom) What mode for STEs, FNBDT or STU-III?
  - A: (Mike on telephone) STEs 2.2 in STU-III mode?
  - Q: (Dan Granstrom) Why only STU-III?
  - A: (Mike on telephone) because, that's what's in the AOR.....(more words than this)



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- Army – TDC-ICAP to IGX
  - Upgraded version of IGX will be determined by PMO
- Army – TDC-ICAP to RED SMU (Patriot)
- Army –TDC-ICAP to nonsecure Army LTU and TTC-39D
- Q: (Ray Steckman) What is the distro for TDC kits for combat comms unit?
- A: (Mike on telephone) 3 units, 2 CONUS each have 4 and 1 OCONUS has 3
- Action: Get a high-level patriot architecture to Msgt Goldschmidt
- 

### **Data Network – Larry Stewart**

- Candidates
- Diagrams
- Interfaces
- Deadlines
- Handouts

### **VTC Network – 1Lt Jared Harris and Bill Kemling**

- Network
- DVS certifications
- Handouts

### **Avaya Brief – Mike Goldberg**

- Rack Mounted Prologix-Tactical switching solution
- IP Media and Control
- Security layer 1
- AES encryption for all IP links
- STU/STE support over IP trunks
  - Modem pass through and modem relay
  - Demonstrated during JUICE 2004
- G700/S8300 Architecture
- G700 is media gateway
- S8300 is Cajun Expansion models 16-bit 10/100B Tswitch
- IP enable non-Avaya PBX

### **SPAWAR, St. Julian's Creek – Stuart Shoup**

- Main objective is Secure voice to a remote platform/ship
- FNBBDT to a ship, only on a PCM channel
- Want to go Network-centric
- Goals and Objectives
  - Assess the following products to be the optimal FNBBDT IWF
    - Avaya IP Trunking
    - Shout IP 900
    - DNE TAC-300
  - Evaluate the Tactical Secure Gateway (TSG) as a Radio-to-Wireline replacement
    - The ability to provide tactical radio access to and from the DSN/PSTN
    - Secure Conferencing capabilities

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- Evaluate Cisco's Secure Voice over Internet Protocol (SVoIP) products over a Joint DOD architecture
  - IP networks to IP networks
  - IP networks to TDM networks
- Provide Secure/Non-Secure Voice/Data Capabilities in a Net centric environment
  - Support STU-III and FNBDT secure calls reliably
- Provide Reliable Secure Voice Gateways
  - Voice Bandwidth Efficiency
  - Data Throughput Efficiency
  - Support for CJCS-6215.01B, GSCR and JITC certification
- Support Underway Rekey
  - STU-III and FNBDT
- Evaluate the products to obtain JITC Certification
- DICE 05 Scenarios
  - STU-III/FNBDT IWF
  - VoIP
  - SvoIP
  - TSG
  - Mobile INMARSAT HMMWV Voice Comms.
- Avaya IP Trunking
- SHOUT IP
- DNE TAC-300
- VoSIP and STE SvoIP
- Tactical Shore Gateway has conference bridge, secure conference STU-II/FNBDT/STE-R & IGX does it all to include ANDVTs

### **JFCOM Secure IP Brief – Ray Steckman**

- Secure Voice over IP – based on JUICE 2004
- Transformation Communications
- Secure voice calls
- Need a SvoIP baseline
- 2 Factors
- IPv6
- MLPP
- Different technology
- JITC lead the way

### **MARCONI Federal Brief – John Shotwell**

- ViPr – want joint certified
- ViPr – MPEG 2
- \*ATM/Ethernet switches\*
- ViPr media interface
- Intermedia gateway
- Video Server
- H.32X Gateway
- Unicast Audiomixer

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- Voice GW analog/digital /PRI
- DICE Objectives
  - VTC Portion
  - Cert/assess of ViPr
  - DREN customers
- Q: (Marty Mendoza) How many ViPrs will be available for testing? Some possibles for outside of JITC are MCTSSA/JCSE/Langley?
- A: (John Shotwell) as many as needed, the possibles can be worked, will work with 1Lt. Harris.

### **NETWARS Brief – Carroll Mitchell**

- DISA NETWARS Program Office
- J6 requested in 1996 a Net-Centric Modeling and Simulation Tool
- MNS in July 1997
- About 250 licensed users
- Will provide training at JITC, end of October
- NETWARS Demo

### **JCSE EoIP – 1Lt Jaramillo**

- Want to demonstrate their EoIP network
- 3 weeks of participation

### **Voice Brief – Rachael Habitzreuther**

- Candidates
- Timelines
- Diagrams
- Deadlines
- Handouts

### **National Guard Bureau – Randy Bryant**

- Operational Scope
- Away game – COCOMs
- Home Game – Governer
- Dual Hat JTF commander
- Title 32 and Title 10
- Many questions about chain of authority and funding

## **END OF DAY TWO**

### ***Day 3 – October 7, 2004***

### **Good Morning Remarks – Marty Mendoza**

- Tours will be provided, possible after lunch today
- If a sidebar is needed, let us know so we can accommodate you

## DICE 2005 Mid Planning Conference Minutes

### JMACA Brief – Len Zimmerman

- Purpose
- Location
- Methodology Vision – rapidly assess JTF architectures
- Problem Statement
- Improved Planning Tools and Processes
- Methodology Process
- Step 0 – Architecture Identification
- Step 1 – Data Mining
- Step 2 – Risk Assessment
- Step 3 – Fine Grain Analysis
- Step 4 – End to end testing
- Step 5 – Operational Analysis
- Q: (Don Murray) Who in the services keep the databases updated for Step 2? It's hard to keep updated.
- A: (Len Zimmerman) Gone through all the databases and are building a repository right now
- Q: (Don Murray) Can I access your database?
- A: (Len Zimmerman) Yes, working with OSDII to make the database accessible for everyone.
- Methodology Product
- Unique benefit to the warfighter
- Community of Interest
  - Joint Operations
  - Training
  - Integrated Architecture Deployment
  - Test and Evaluation
  - Acquisition
- JMACA and JT&E Status
- Located in Suffolk, VA
- Full capabilities this month
- Want to use DICE 05 for 3 validation tests
- Demonstration of the Interoperability Maintenance Tool – Bill Hewitt
- Access Database
- 4 modules
  - System Information
  - System Attributes
  - Transmission Attributes
  - COMSEC Compatability
- Q: (Andre Dozier) Will there be 1 server after update?
- A: (Bill Hewitt) Will transisiton to Web page later/Configuration Management
- Q: (??) Is this program like JITC's STP?
- A: (Bill Hewitt) No
- Q: (Marty Mendoza) This is not all inclusive?
- A: (Bill Hewitt) Not yet, still trying. Hopefully will have the last 3 modules complete by the end of the year.
- Q: (Marty Mendoza) What about showing the status of interoperability date?

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- A: (Bill Hewitt) It's a possibility
- Discussion over the word "interoperability" used throughout the database – it does not refer to JITC interoperability certification, but can lead a person to a false conclusion – could be a disclaimer.
- Q: (Capt. Paul Dunbar) What will you be doing in DICE 05?
- A: (Bill Hewitt) Equipment threads, working with JNMS and NETWARS
- A: (Marty Mendoza) Just getting our network diagrams

### **Canadian Switched Network (CSN) – Capt. Ron Kollman**

- The CSN is just like the DSN – area code 319
- The CDRSN is just like the DRSN
- ISDN
- Dialing Plan
- DOG – Deployed Operations Gateway
- National Networks
- DICE involvement
- Q: (Ray Steckman) What is the military view/capability of DOG in NATO TACOM Arena?
- A: (Capt. Kollman) Unsure.
- The DOG is located in OTTAWA at Tunney's Pasture
- Proposed Canadian Involvement
- Coalition Secure Voice
- IPv6
- Coalition SATCOM Secure Voice
- Coalition Secure VTC
- PRILINK (Canadian company) ISDN B&D Channel Protocol Analysis
- Q: (Ray Steckman) Do Dog to JCSE? What Satellite band? Ku-, C-, or Ka-bands?
- A (Capt. Kollman) Possible link, band Ku
- Q: (Capt. Dunbar) Any specific services you want to work with?
- A. (Capt. Kollman) nothing in particular, looking for JITC direction

### **COMSEC Brief – SFC Thurman & CW3 Daines**

- Keymat – NIPR and SIPR
- Need POCs!!!

### **SATCOM Working Group – Ralph Vega**

- Phase by Phase scheduling
- No legacy TSSPs
- No C-band

### **OPEN ITEMS**

Ship to participate??? Asked for, can we get one?

WIN-T – final architecture

Working Groups, Tours, and Sidebars

### **MPC Conclusion**

### **END OF DAY THREE**